

Claims

[1] A method of allocating links in a base station of a 1x EVDO system comprising a link database, wherein the link database includes an equipment confirmation item for representing equipment information of the link, a link status item for representing a status of the link, a total call user number item for representing the total number of users to whom the link is allocated, and a current call user number item for representing in each sub-cell the number of users to whom the link is allocated, said method comprising the steps of:
 checking the equipment confirmation item upon request for a call allocation from a user;
 checking the total call user number item to determine whether there remains a link that has not been used by any of other users;
 if it is determined that there remains an unused link, checking the link status item to determine whether the link is in a normal status; and
 if it is determined that the link is in a normal status, allocating the link to the user.

[2] The method as claimed in claim 1, said method further comprising the steps of:
 if it is determined that there remains no link that has not been used by any of the other users, checking the current call user number item to determine whether there remains a link allocated to the other users sharing the sub-cell with the user; and
 if it is determined that there remains a link allocated to the other users sharing the sub-cell with the user, allocating to the user the link allocated to a maximum number of the other users sharing the sub-cell with the user.

[3] The method as claimed in claim 2, said method further comprising the step of:
 if it is determined that there remains no link allocated to the other users sharing the sub-cell with the user, checking the total call user number item to allocate to the user the link allocated to a minimum number of the other users.